

STANDARD OF MONGOLIA

Classification code 65.160

Янжуур тамхи. Техникийн ерөнхий шаардлага	MNS 5024 : 2013 replacing MNS 5024 : 2008
Cigarettes. General technical requirement	

Approved by the Resolution No. 17 of National Council of Standardization and Metrology, dated on 25 April 2013.

The normative requirements of this standard are binding.

This standard becomes effective beginning from 01 May 2014.

1. OBJECTIVE

The objective of this standard is to specify the requirements to be placed upon production, import and sales of cigarettes and to protect the health of general public from hazards caused by tobacco.

2. SCOPE AND APPLICABILITY

2.1 The standard applies to production, packaging, labelling, quality control, storage, transportation and sale of cigarettes.

2.2 Manufacturers, importers, distributors and consumers of cigarettes and control and certification processes of cigarettes shall comply with this standard.

3 NORMATIVE REFERENCES

The following documents are normatively referenced in this document. In case of any changes to these documents, the latest edition of the referenced document applies.

- MNS ISO 10185: 2012, Tobacco and Tobacco products – Vocabulary
- MNS ISO 10315: 2001, Cigarettes - Determination of nicotine in smoke condensates – Gas-Chromatographic method
- MNS ISO 8243: 2011, Cigarettes – Sampling
- MNS ISO 3308: 2001, Smoking machine for lab – Definitions and standard conditions
- MNS ISO 4387: 2001, Cigarettes – Determination of total and nicotine-free dry particulate matter (tar) using smoking machine for lab
- MNS 5549: 2006, Thin layer chromatographic method to determine aflatoxins B1,

B2, G1 and G2 in food products

- MNS 5127: 2002, Tobacco and Tobacco products. Determination of humidity. Weighing method
- MNS 5128: 2002, Tobacco and Tobacco products. Determination of the amount of nicotine and tar. Weighing method.
- MNS 5129: 2002, Tobacco and Tobacco products. Determination of organochlorine pesticide residues – Thin layer chromatographic method
- MNS 5130: 2002, Tobacco and Tobacco products. Determination of organophosphorous pesticide residues – Thin layer chromatographic method
- MNS CAC/RCP 1 : 2003, General principles of food hygiene
- MNS 4244 : 1994, Labour safety standards. General fire safety requirements
- MNS 4968: 2000, Safe operation. Health. General requirements and norms, general requirements for measurement method
- MNS 5364: 2004 Food product storage. General technical requirements

4 TERMS AND DEFINITIONS

For the purpose of this document, terms and definitions specified in MNS ISO 10185: 2012, Tobacco and Tobacco products – Vocabulary shall apply.

4.1 CIGARETTE

A product that is prepared by rolling technologically processed tobacco leaves in a wrapper of thin paper and is designed for smoking with filter.

5 TECHNICAL REQUIREMENTS

5.1 Cigarettes shall be produced in a factory that complies with requirements specified in MNS 4968 : 2000, Safe operation. Health. General requirements, with respect to approved technologies, formulas and ingredients.

5.2 Any raw or supplementary materials used in production of cigarettes shall comply with requirements specified in MNS CAC/RCP 1 : 2003, General principles of food hygiene.

5.3 For importing of cigarettes, all necessary documents from relevant authorities with quality and safety information shall be provided.

5.4 Physical specifications of cigarettes shall comply with Table 1.

MNS 5024 : 2013**Physical Specifications of Cigarettes**

Table 1

No.	Specification	Unit of measurement	Specification Limits
1.	Total length of cigarette	mm	(83.5-100.5) \pm 0,5
2.	Filter length	mm	(21-32) \pm 0,5
3.	Length of tobacco section	mm	(53-66) \pm 0,5
4.	Diameter	mm	(4-9) \pm 0,2
5.	Weight of a single cigarette	g/piece	(0.5-0.9) \pm 0,05
6.	Humidity	%	13 \pm 2

5.5 Cigarette shall be intact and shall be filled evenly across the smoking section..

5.6 A ring shall be firmly affixed to the body of a cigarette without wrinkling or folding it.

5.7 The permissible amounts of chemicals found in cigarette shall comply with the limits specified in Table 2.

Chemical Specifications of Cigarettes

Table 2

No.	Specification	Unit of measurement	Maximum permissible amount
1.	Tar	mg/piece	14,0
2.	Nicotine	mg/piece	1,3
3.	Carbon monoxide	mg/piece	15,0
4.	Aflatoxins B1, B2	-	Must not be present
5.	Pesticide	Organochlorine	0,1
		Organophosphorous	0,2
6.	Cumulative gamma activation	Bq/g	250,0
7.	Narcotics	-	Must not be present

6 QUALITY CONTROL AND ACCEPTANCE

The appearance of cigarette (cigarette paper and pack) shall be checked for compliance with Appendix A. The quality of cigarette shall be checked for compliance with the following standards:

6.1 MNS 5127: 2002, Tobacco and Tobacco products. Determination of humidity. Weighing method

6.2 MNS 5128: 2002, Tobacco and Tobacco products. Determination of the amount of nicotine and tar. Weighing method.

6.3 MNS 5129: 2002, Tobacco and Tobacco products. Determination of organochlorine pesticide residues – Thin layer chromatographic method

6.4 MNS 5130: 2002, Tobacco and Tobacco products. Determination of organophosphorous pesticide residues – Thin layer chromatographic method

6.5 MNS ISO 10315: 2001, Cigarettes - Determination of nicotine in smoke condensates – Gas-Chromatographic method

6.6 MNS 5549: 2006, Thin layer chromatographic method to determine aflatoxins B1, B2, G1 and G2 in food products

6.7 MNS ISO 4387: 2001, Cigarettes – Determination of total and nicotine-free dry particulate matter (tar) using smoking machine for lab

7 PACKAGING AND LABELLING

7.1 Cigarettes shall be packed no less than 20 per pack.

7.2 Health warning message shall consist of graphic image depicting health hazards caused by direct and indirect smoking, main and explanatory texts.

7.2.1 Health warning message shall be printed on the front and back or on the two largest surfaces of a cigarette pack or carton.

7.2.2 Health warning message shall be placed such that they are not damaged when the pack or carton is opened.

7.2.3 Health warning message shall be in accordance with the designs provided in Appendix B.

7.2.4 Six types of health warning messages selected for a brand of cigarette that is manufactured or imported and shall be used in equal proportions for the brand.

7.2.5 Health warning message shall be placed on the lower part of the cigarette pack surface and shall take up at least 50 percent of the surface.

7.2.6 Health warning message shall be printed in 4 colours that are visible and are equal to the original copy and shall have a 1 mm wide black frame.

7.2.7 Health warning message shall be written in the following manner:

- Graphic image No. 1:

In the text “**Smoking harms “beauty”**”, the words “**Smoking...**” and “**...harms**” shall be printed in “**bold**” in lowercase, 12-point “**Arial**” font and the word “**beauty**” shall be printed in “**bold**” in lowercase, 16-point “**Arial**” font in red with white background along the upper edge of graphic image.

- Graphic image No. 2:

In the text **“Smoking causes cancer”**, the words **“Smoking...”** and **“...causes”** shall be printed in **“bold”** in lowercase, 14-point **“Arial”** font and the word **“cancer”** shall be printed in **“bold”** in lowercase, 20-point **“Arial”** font in yellow along the upper edge of graphic image.

- Graphic image No. 3:

In the text **“Smoking causes impotence”**, the words **“Smoking...”** and **“...causes”** shall be printed in **“bold”** in lowercase, 12-point **“Arial”** font and the word **“impotence”** shall be printed in **“bold”** in lowercase, 18-point **“Arial”** font in yellow along the upper edge of graphic image.

- Graphic image No. 4:

In the text **“Smoking causes gangrene”**, the words **“Smoking...”** and **“...causes”** shall be printed in **“bold”** in lowercase, 14-point **“Arial”** font and the word **“gangrene”** shall be printed in **“bold”** in lowercase, 20-point **“Arial”** font in yellow along the upper edge of graphic image.

- Graphic image No. 5:

In the text **“Smoking kills”**, the words **“Smoking...”** shall be printed in **“bold”** in lowercase, 14-point **“Arial”** font and the word **“kills”** shall be printed in **“bold”** in lowercase, 18-point **“Arial”** font in yellow along the upper edge of graphic image.

- Graphic image No. 6:

In the text **“Smoking causes impaired fetal growth”**, the words **“Smoking...”**, and **“causes”** shall be printed in **“bold”** in lowercase, 12-point **“Arial”** font and the word **“impaired fetal growth”** shall be printed in **“bold”** in lowercase, 18-point **“Arial”** font in yellow along the upper edge of graphic image.

7.2.9 It is prohibited to change the design, size, colour and template of health warning message approved in Appendix B.

7.2.10 It is prohibited to place any symbol, image or writing in an area where health warning message is placed.

7.2.11 Health warning message shall be printed on the cigarette pack in a manner specified in Appendix C, on the carton in a manner specified in Appendix D and on the box in a manner specified in Appendix E.

7.3 The following information shall be printed in Mongolian language on the side surface of a cigarette pack or carton:

- Name of country/company manufacturing; importing or exporting;

- Date of manufacture;
- Name of manufacturer /importer/;
- Expiration date;
- Content of toxic substance (tar and nicotine) per cigarette;
- National standard number;
- A note saying the cigarette is allowed for sale in Mongolia

Note: National standard number shall be printed only on products of domestic manufacturers.

7.4 It is prohibited to use language that implies certain cigarettes are less damaging to health than others, or its equivalents including through the use of symbols, images, colours or combinations thereof on any cigarette pack or carton.

7.5 Health warning message design template (Appendix B) can be obtained in CD format from the National Centre for Standardization and Metrology.

8 SAMPLING

Sampling shall be performed in accordance with MNS ISO 8243 : 2011, Cigarettes – Sampling.

9 TRANSPORTATION AND STORAGE

9.1 Cigarettes shall be transported by a vehicle in compliance with all applicable regulations.

9.2 Cigarettes shall be stored in a warehouse in compliance with “**Specialized warehouse** – Warehouse designed for storing certain groups of goods that require special storage conditions (temperature/humidity controlled, etc.) and regime”.

9.3 The storage facility shall maintain a relative humidity of 65 ± 5 % and ambient temperature between 17°C and 20°C .

9.4 Cigarettes may be stored for up to 2 years from date of manufacture.

9.5 Boxes containing cartons shall be placed away from direct sunlight, on wooden pallets at least 10 cm from the floor, at least 20 cm any source of heat, and in a manner that air may freely flow between them.

.THE END.

**APPENDIX A
(informative)**

EVALUATION OF APPEARANCE OF CIGARETTES

Cigarette appearance shall be evaluated using the following criteria. Total damage and defect points calculated using this method shall not exceed 120.

A.1. 10 packs of cigarettes shall be chosen as test samples.

A.2. The damage and defects on the surface of cigarette pack shall be evaluated using 3 levels i.e. major, moderate and minor.

A.3. Major damage and defects

Pack surface: cover of pack is not intact, adhesion of any of the sides of pack is failing, a cigarette of another brand is present in the pack, cigarettes are missing from the pack, and/or cigarettes are stuck together or stuck to the inner paper of the pack that their general form is altered.

Cigarette appearance: the filter is missing from filtered cigarette, cigarette paper has a hole or has yellowed, adhesion of cigarette paper is failing along the cigarette length, and/or the cigarette has different admixture (except pieces of cigarette paper).

A.4. Moderate damage and defects

Pack surface: adhesion of any of the the sides of pack is partially failing, the pack opening ribbon is missing, the trademark and/or text on the label is dislocated or illegible.

Cigarette appearance: the end of cigarette paper has a hole or is frayed, the brand name is missing from the visible surface of the cigarette, machine oil stains do not exceed 3 mm, there are pieces of cigarette paper inside the cigarette, and/or the butt of cigarette is torn less than 3 mm.

A.5 Minor defects

Pack surface: the form of the pack is slightly deviated, the ends of pack opening ribbon cross each other slightly, and/or the protective paper is wrinkled or damaged.

Cigarette appearance: the brand name is not legible, cigarette paper is torn, cigarette paper is wrinkled, and/or the adhesion of the end of cigarette has failed up to 3 mm.

A.6 The 3 types of cigarettes that were collected in accordance with A.1. and evaluated shall be classified into 3 groups, again according to their defects. If several types of damage or defect are detected in a pack or cigarette, that pack or cigarette shall be considered to be the pack or cigarette with the most defects. If a pack or cigarette presents several defects of a single type, that pack or cigarette shall be considered to have a single kind of damage.

A.7 Major damage and defects have 10 points, moderate damage and defects have 3 points and minor damage has 0.3 point; total damage and defect points determined by this method shall not exceed 120. The number of packs and cigarettes with damage and defects shall be calculated for each type. The overall grade of appearance for cigarettes and cigarette packs shall be calculated using the following formula.

$$O = 10A + 3B + 0,3C$$

Notes :

- A – Number of cigarettes and packs with major damage and defects;
- B - Number of cigarettes and packs with moderate damage and defects;
- C - Number of cigarettes and packs with minor defects.

**APPENDIX B
(Normative)**

DESIGN OF HEALTH WARNING MESSAGES

Graphic image No. 1

Smoking harms “beauty“



Graphic image No. 2

Smoking causes “cancer“



Graphic image No. 3

Smoking causes “**impotence**”



Graphic Image No. 4

Smoking causes “**gangrene**”



Graphic image No. 5

“Smoking kills”



Graphic image No. 6

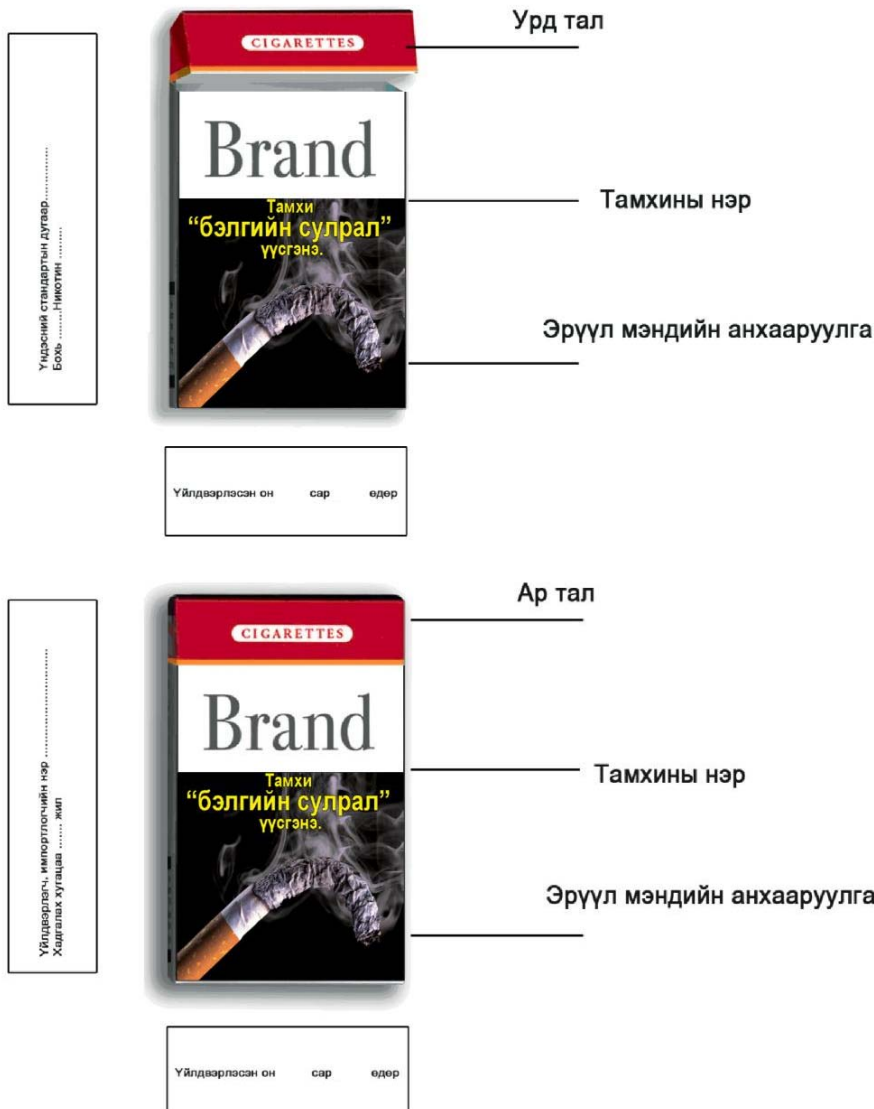
“Smoking causes impaired fetal growth”



**APPENDIX C
(Normative)**

PLACING HEALTH WARNING MESSAGE ON CIGARETTE PACK

- | | |
|------------------------------|---------------------------------------|
| _____ Front | _____ Brand name of cigarette |
| _____ Health warning message | _____ National standard number |
| _____ Tar | _____ Nicotine |
| _____ Nicotine | _____ Date of manufacture |
| _____ Back | _____ Brand name of cigarette |
| _____ Health warning message | _____ Name of manufacturer /importer/ |
| _____ /year/ Expiration date | _____ Date of manufacture |



APPENDIX D
(Normative)

**PLACING HEALTH WARNING
MESSAGE ON CIGARETTE CARTON**



APPENDIX E
(Informative)

PLACING HEALTH WARNING MESSAGE ON BOX
CONTAINING CARTONS

